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NORTH CENTRAL FOREST EXPERIMENT STATION, FOREST SERVICE—U.S. DEPARTMENT OF AGRICULTURE

Folwell Avenue, St. Paul, Minnesota 55101

PULPWOOD PRODUCTION IN THE LAKE STATES 1977

BY COUNTY, 1976

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ABSTRACT.--This 31st annual report shows 1976 pulpwood production by county and species group in Michigan, Minnesota, and Wisconsin. Production in these three Lake States climbed to 4.7 million cords from 4.1 million cords in 1975.

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Lake States pulpwood production rose to 4.69 million cords in 1976 from 4.14 million cords in 1975. Production increased 22 percent in Wisconsin to 1.84 million cords and 20 percent in Michigan to 1.54 million cords. Output in Minnesota fell 4 percent to 1.31 million cords.

Nine out of 10 cords were cut from roundwood, including chips from roundwood (table 1). The remainder was derived from mill residue such as slabs, edgings, veneer cores, and chips from those materials. Production from softwood and hardwood residue by State was:

State	*Softwood*	*Hardwood*
	Hundred standard cords	
Michigan	243	1641
Minnesota	335	658
Wisconsin	384	1291

All the increased output was from roundwood; use of Lake States wood residue for pulp fell slightly. Major increases from roundwood were in aspen (218,000 cords), elm (166,000 cords), birch (74,000 cords), pine (66,000 cords), and maple (61,000 cords). The continuing spread of Dutch Elm disease led to more than a 3-fold increase in elm harvesting for pulpwood; Wisconsin supplied 85 percent.

Increased harvesting occurred primarily in Michigan's Upper Peninsula and northern and central Wisconsin. Top-producing counties were St. Louis, Koochiching,

and Itasca in Minnesota; Marinette, Oneida, and Price in Wisconsin; and Marquette, Delta, and Iron in Michigan.

Pulpmills using Lake States timber in 1976 reported their pulpwood receipts by species groups and State and county of origin. Their cooperation is gratefully acknowledged. Thanks are also due the Michigan Department of Natural Resources for collecting the data from pulpmills in Michigan.

Table 1.--*Lake States pulpwood production from roundwood by county and species, 1976*
(Hundred standard cords, roughwood basis)

MICHIGAN

UNIT AND COUNTY 1/	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEMLOCK	TAMARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
E. UPPER PENINSULA												
ALGER	608	182	11	25	108	X	11	68	41	X	84	78
CHIPPEWA	384	199	30	37	30	X	2	52	6	X	15	13
DELTA	986	114	25	101	59	X	5	325	70	X	103	184
LUCE	467	191	38	71	56	X	5	23	21	X	31	31
MACKINAC	170	28	12	39	11	X	1	28	14	X	16	21
MENOMINEE	752	21	21	112	29	5	2	353	29	X	72	108
SCHOOLCRAFT	419	143	28	32	52	X	4	77	19	X	31	33
TOTAL	3786	878	165	417	345	5	30	926	200	X	352	468
W. UPPER PENINSULA												
BARAGA	274	39	7	7	41	X	2	126	9	1	30	12
DICKINSON	822	16	9	41	22	2	2	559	42	2	64	63
GOGEBIC	537	10	2	26	154	X	X	233	38	X	50	24
HOUGHTON	158	17	5	14	32	1	2	55	13	1	12	6
IRON	953	65	61	113	26	2	1	371	66	2	165	81
KEWEENAW	4	X	3	X	1	0	X	0	0	0	0	0
MARQUETTE	1123	274	51	98	132	1	15	242	88	3	160	59
ONTONAGON	404	10	2	8	34	X	2	168	37	1	98	44
TOTAL	4275	431	140	307	442	6	24	1754	293	10	579	289
N. LOWER PENINSULA												
ALCONA	414	26	X	2	X	0	0	225	13	109	24	15
ALPENA	170	6	3	7	X	0	0	101	9	9	25	10
ANTRIM	2	0	0	0	0	0	0	2	X	0	0	0
ARENAC	X	X	0	0	0	0	0	0	0	0	0	0
BENZIE	88	0	0	0	0	0	0	48	4	12	21	3
CHARLEVOIX	2	0	1	1	0	0	0	0	0	0	0	0
CHEBOYGAN	246	14	2	5	0	0	0	146	33	1	32	13
CLARE	212	13	0	0	0	0	0	154	4	26	13	2
CRAWFORD	232	168	0	0	0	0	0	21	2	32	7	2
EMMET	5	3	1	1	0	0	0	0	0	0	0	0
GLADWIN	53	0	0	0	0	0	0	38	2	7	5	1
GRAND TRAVERSE	96	29	0	0	0	0	0	44	4	10	6	3
IOSCO	174	143	0	0	0	0	0	16	4	2	8	1
ISABELLA	86	2	0	0	0	0	0	73	5	2	2	2
KALKASKA	95	38	0	0	0	0	0	29	4	11	11	2
LAKE	385	95	0	0	0	0	0	91	9	90	65	35
LEELANAU	42	X	0	0	0	0	0	12	X	12	13	5
MANISTEE	285	45	0	0	0	0	0	111	7	74	37	11
MASON	103	4	0	0	0	0	0	46	2	16	30	5
MECOSTA	221	48	0	0	0	0	0	103	8	38	13	11
MIDLAND	3	X	0	0	0	0	0	3	X	X	X	0
MISSAUKEE	88	14	0	0	0	0	0	51	3	6	11	3
MONTMORENCY	369	91	3	4	0	0	0	178	8	57	14	14
NEWAYGO	244	40	0	0	0	0	0	66	6	84	26	22
OCEANA	100	28	0	0	0	0	0	26	2	17	20	7
OGEMAW	37	4	0	0	0	0	0	22	2	6	3	X
OSCEOLA	165	21	0	0	0	0	0	83	5	23	18	15
OSCODA	387	114	X	X	0	0	0	179	15	51	20	8
OTSEGO	117	95	0	X	0	0	0	13	2	4	2	1
PRESQUE ISLE	265	48	4	8	0	0	0	137	36	3	19	10
ROSCOMMON	148	38	0	0	0	0	0	67	2	35	5	1
WEXFORD	433	273	0	0	0	0	0	76	1	44	34	5
TOTAL	5267	1400	14	28	X	0	0	2161	192	781	484	207
S. LOWER PENINSULA												
ALLEGAN	33	19	0	0	0	0	0	9	X	4	1	X
CASS	1	1	0	0	0	0	0	X	0	0	0	0
GRATIOT	9	X	0	0	0	0	0	9	X	X	X	0
KENT	34	13	0	0	0	0	0	17	X	2	1	1
MONTCALM	43	11	0	0	0	0	0	25	X	4	2	1
MUSKEGON	64	51	0	0	0	0	0	4	X	8	1	X
OTTAWA	9	9	0	0	0	0	0	0	0	0	0	0
TOTAL	193	104	0	0	0	0	0	64	X	18	5	2
STATE TOTAL	13521	2813	319	752	787	11	54	4905	685	809	1420	966

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1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1976.
X=LESS THAN 50 CORDS.

MINNESOTA

UNIT AND COUNTY 1/	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEM-LOCK	TAM-ARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
NORTHERN ASPEN-BIRCH												
CARLTON	379	42	2	20	0	5	0	267	43	0	X	0
COOK	382	48	102	39	0	0	0	193	0	0	0	0
KOOCHICHING	2507	194	644	153	0	153	0	1225	35	0	2	101
LAKE	791	210	218	85	0	1	0	241	36	0	0	0
ST.LOUIS	3026	546	328	138	0	34	0	1797	93	0	2	88
TOTAL	7085	1040	1294	435	0	193	0	3723	207	0	4	189
NORTHERN PINE												
AITKIN	357	13	17	11	0	34	0	246	18	9	4	5
BECKER	18	12	0	0	0	0	0	6	0	0	0	0
BELTRAMI	788	63	83	85	0	21	0	462	72	0	2	X
CASS	650	123	20	27	0	13	0	420	47	0	0	0
CLEARWATER	264	36	14	3	0	41	0	159	11	0	X	X
CROW WING	159	46	0	X	0	0	0	92	12	5	2	2
HUBBARD	372	93	4	3	0	11	0	236	25	0	0	0
ITASCA	1463	91	157	170	0	38	0	935	33	0	1	38
LAKE OF THE WOODS	219	46	105	1	0	4	0	63	0	0	0	X
MAHNOMEN	19	9	0	0	0	X	0	5	5	0	0	0
ROSEAU	201	54	61	X	0	5	0	76	5	0	0	X
WADENA	114	56	X	0	0	0	0	53	5	0	0	0
TOTAL	4624	642	461	300	0	167	0	2753	233	14	9	45
CENTRAL HARDWOOD												
BENTON	21	0	0	0	0	0	0	12	1	4	2	2
ISANTI	1	0	0	0	0	0	0	X	1	0	0	0
KANABEC	43	0	0	0	0	0	0	23	4	8	4	4
MILLE LACS	104	0	0	0	0	1	0	75	4	12	6	6
MORRISON	81	14	X	X	0	0	0	58	1	4	2	2
OTTERTAIL	4	4	0	0	0	0	0	0	0	0	0	0
PINE	109	13	0	1	0	0	0	85	10	0	0	0
TODD	7	7	X	0	0	0	0	0	0	0	0	0
TOTAL	370	38	X	1	0	1	0	253	21	28	14	14
PRAIRIE												
POLK	9	0	0	0	0	9	0	0	0	0	0	0
TOTAL	9	0	0	0	0	9	0	0	0	0	0	0
STATE TOTAL	12088	1720	1755	736	0	370	0	6729	461	42	27	248

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X=LESS THAN 50 CORDS.

WISCONSIN

UNIT AND COUNTY 1/	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEM-LOCK	TAM-ARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
NORTHEASTERN												
FLORENCE	799	23	13	33	32	1	0	441	9	X	23	224
FOREST	877	37	34	135	44	3	0	362	50	X	101	111
LANGLADE	564	37	4	17	14	1	0	154	26	5	104	202
LINCOLN	871	24	13	26	22	5	0	397	51	16	79	238
MARINETTE	1255	106	16	79	18	2	X	873	92	X	30	39
OCONTO	319	69	2	12	4	1	0	212	12	1	4	2
ONEIDA	1169	111	45	201	16	7	0	463	147	17	99	63
SHAWANO 2/	375	15	X	1	82	X	0	170	10	X	31	66
VILAS	897	131	12	108	42	X	0	379	102	8	52	63
TOTAL	7126	553	139	612	274	20	X	3451	499	47	523	1008
NORTHWESTERN												
ASHLAND	758	76	15	91	23	1	0	346	51	4	79	72
BARRON	5	5	0	0	0	0	0	0	X	X	X	X
BAYFIELD	915	130	2	28	2	0	0	601	125	4	13	10
BURNETT	315	289	0	0	0	0	0	24	X	0	1	1
DOUGLAS	527	226	1	3	0	X	0	256	37	0	2	2
IRON	679	8	6	26	14	0	0	483	47	5	24	66
POLK	8	8	0	0	0	0	0	0	0	0	0	0
PRICE	986	14	8	55	17	5	0	443	102	10	95	237
RUSK	299	X	1	5	7	X	0	94	45	9	40	98
SAWYER	676	78	4	30	9	X	0	279	80	6	74	116
TAYLOR	523	7	4	16	20	2	0	174	52	10	77	161
WASHBURN	524	120	X	1	0	0	0	377	19	X	4	3
TOTAL	6215	961	41	255	92	8	0	3077	558	48	409	766
CENTRAL												
ADAMS	431	360	0	0	0	1	0	X	1	63	3	3
CHIPPEWA	295	5	0	X	2	2	0	88	35	65	50	48
CLARK	207	25	0	X	2	0	0	38	6	108	16	12
EAU CLAIRE	50	48	0	0	0	0	0	2	X	X	X	X
JACKSON	198	172	0	0	0	1	0	1	2	14	5	3
JUNEAU	238	175	0	0	0	X	0	6	2	44	6	5
MARATHON	869	30	6	19	57	X	0	93	20	26	102	516
MARQUETTE	59	21	X	0	0	0	0	X	2	2	15	19
MONROE	65	57	0	0	0	0	0	1	1	0	3	3
PORTAGE	173	84	X	X	1	0	0	19	1	52	7	9
WAUPACA	148	13	0	X	X	0	0	105	3	X	9	18
WAUSHARA	100	75	0	0	X	1	0	9	2	9	3	1
WOOD	364	173	X	0	2	X	0	24	5	131	14	15
TOTAL	3197	1238	6	19	64	5	0	386	80	514	233	652
SOUTHWESTERN												
BUFFALO	X	X	0	0	0	0	0	0	0	0	0	0
CRAWFORD	29	0	0	0	0	0	0	X	X	6	11	12
DUNN	15	15	0	0	0	0	0	0	0	0	0	0
GRANT	5	X	0	0	0	0	0	X	X	1	2	2
IOWA	1	1	0	0	0	0	0	0	0	0	0	0
LACROSSE	11	11	0	0	0	0	0	0	0	0	0	0
PEPIN	X	X	0	0	0	0	0	0	0	0	0	0
RICHLAND	1	1	0	0	0	0	0	0	0	0	0	0
SAUK	14	14	0	0	0	0	0	0	0	X	0	0
TREMPEALEAU	5	5	0	0	0	0	0	0	0	0	0	0
TOTAL	81	47	0	0	0	0	0	X	X	7	13	14
SOUTHEASTERN												
BROWN	2	2	0	0	0	0	0	X	0	0	0	0
COLUMBIA	24	11	0	0	0	0	0	0	1	8	2	2
DANE	3	3	0	0	0	0	0	0	0	0	0	0
DODGE	X	0	0	0	0	0	0	0	0	X	0	0
GREEN	11	11	0	0	0	0	0	0	0	0	0	0
GREEN LAKE	X	X	0	0	0	0	0	0	0	X	0	0
JEFFERSON	1	0	0	0	0	0	0	0	0	1	0	0
OUTAGAMIE	30	4	0	0	0	0	0	17	3	0	4	2
ROCK	9	9	0	0	0	0	0	0	0	0	0	0
WAUKESHA	23	23	0	0	0	0	0	0	0	0	0	0
TOTAL	103	63	0	0	0	0	0	17	4	9	6	4
STATE TOTAL	16722	2862	186	886	430	33	X	6931	1141	625	1184	2444

1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1976.
2/ INCLUDES MENOMINEE COUNTY.
X=LESS THAN 50 CORDS.